FIG.1

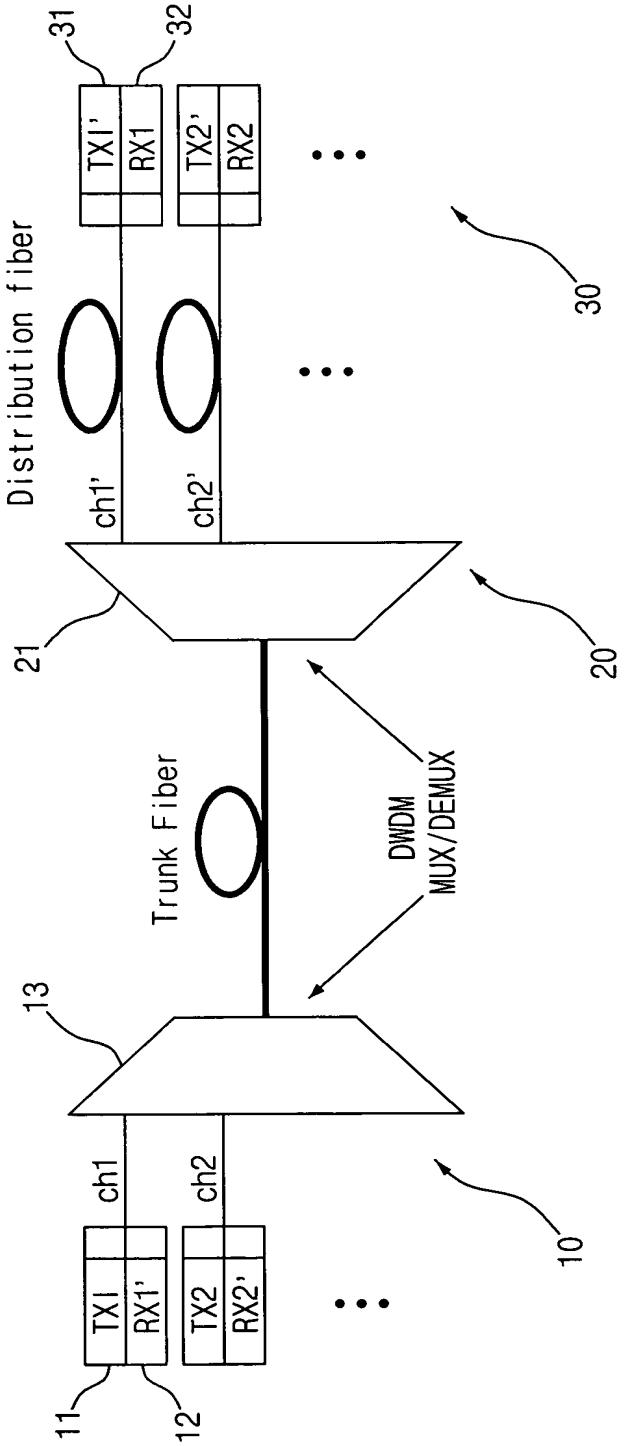
31
32
TX1'
RX1
TX2'
RX2
Distribution fiber
ch1'
ch2'
30
21
20
Trunk Fiber
DWDM
MUX/DEMUX
13
ch1
ch2
TX1
RX1'
TX2
RX2'
10
11
12

FIG.2

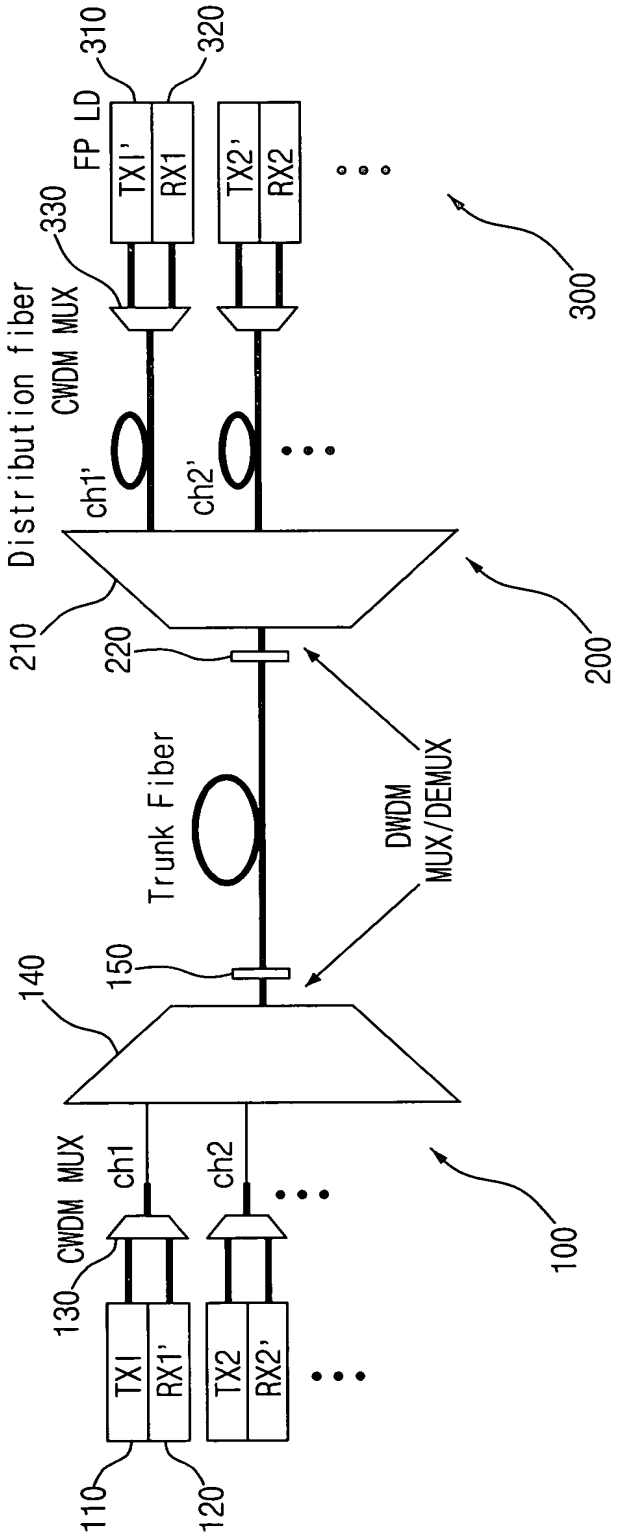
310
320
FP LD
TX1'
RX1
TX2'
RX2
330
CWDM MUX
Distribution fiber
ch1'
ch2'
300
210
220
200
Trunk Fiber
DWDM
MUX/DEMUX
140
150
CWDM MUX
ch1
ch2
130
TX1
RX1'
TX2
RX2'
100
110
120

FIG.3

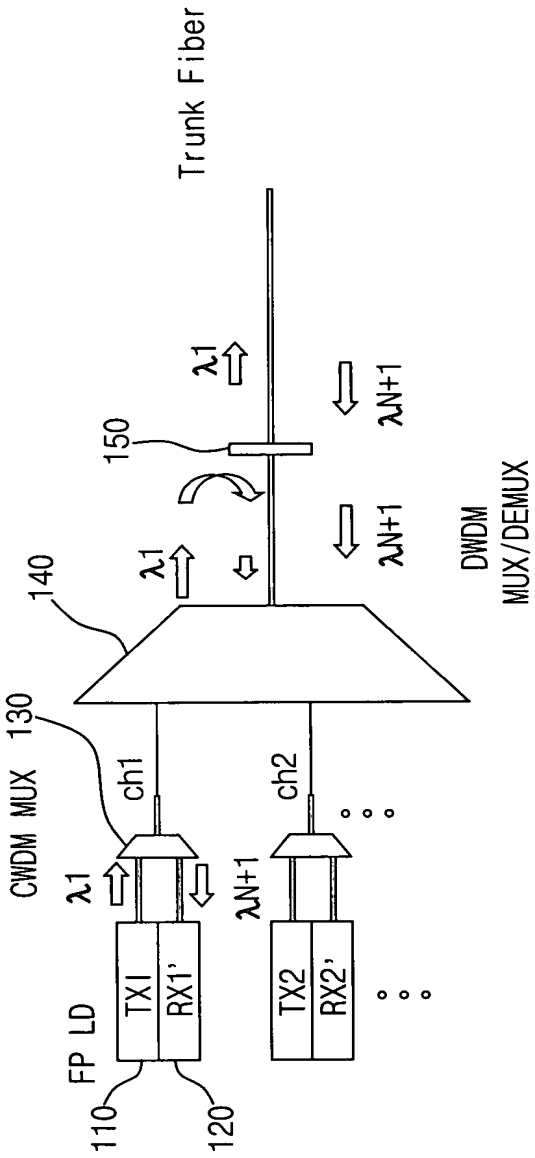
Trunk Fiber
λ1
λN+1
150
λ1
λN+1
DWDM
MUX/DEMUX
140
CWDM MUX
130
ch1
ch2
λ1
λN+1
FP LD
TX1
RX1'
TX2
RX2'
110
120

FIG.4

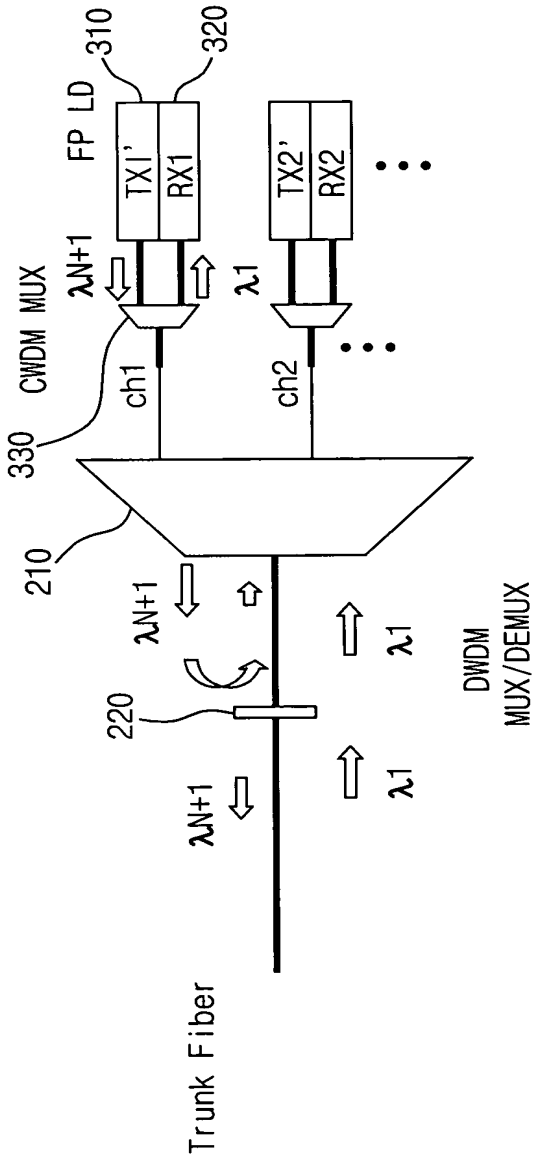
310
320
FP LD
TX1'
RX1
TX2'
RX2
λN+1
λ1
CWDM MUX
ch1
ch2
330
210
λN+1
λ1
220
λN+1
λ1
DWDM
MUX/DEMUX
Trunk Fiber

FIG.5a

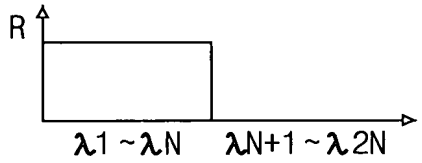

FIG.5b

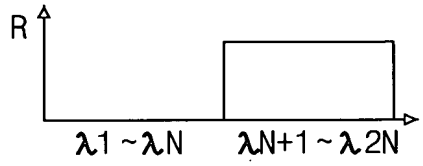
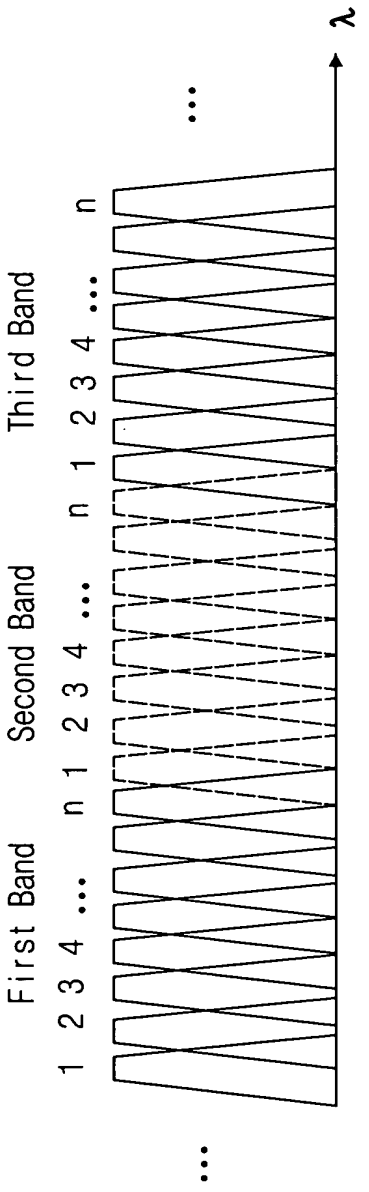
FIG.6